Abstract of Quality Assurance plan (ROAD)

Name of Work :	Improvements to Roads, Drains and Construction of Culverts at Amrutahalli and Surrounding in ward no.09											
Estimate Cost :	75.00 Lakhs			Work order no & Date:	BBMP/EE/BTP/WO/178/2022-23 Dated: 18.03.2023			Contractor:		Sri. M. Prakash		
As Per tender/ Date of commencement of work :						As Per tender /Date of completion of work:						
Sl No	Materials required for finishined item of work	Unit	Quantity of Materials	Name of Test to be Conducted	No of Tests Required	No of test by		No of test by Competent Authority / Manufacturer	Total nos of test conducted by		Frequency as per Relevent IS Codes and MoRTH Quality Plans	Reference
						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn		
Concrete works												
1	Cement	Bags	-	Normal Consistency	1	1			1		1 test for every 5000 bags/1 test for each consignment/ as decided by the engineer incharge	IS 269, IS 455, IS 1489, IS 8112-1989 IS 12269-1987
				Initial setting time	1	1			1			
				Final setting time	1	1			1			
				Compressive strength	1	1			1			
2	20 mm down size Coarse aggregate	Cum	-	Seive analysis	1	1			1		One Test per 100 Cum/ or Change in source	IS 383-2016, IS2386(part1 - 8)
3	40 mm down size Coarse aggregate	Cum	-	Seive analysis	1	1			1		One Test per 100 Cum/ or Change in source	IS 383-2016, IS2386(part1)-1963 & sampling 2430-1969 ,4926-2003
4	Fine aggregate	Cum	–	Seive analysis	1	1			1		One Test per 100 cum or Change in source	IS 383-2016, IS2386(part 2)-1963 &2430-1969

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						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn		
5	Dry Lean Concrete (M5)	Cum	17.48	28 days Compressive Strength	4	4			4		1-5cum - 1 set, 5-15 cum- 2 set, 15-30cum- 3 set, 30-50cum - 4 set , aabove 50 cum- additio 1 set and above 100 cum - 1 set for every 100 cum . For RMC concrete 1 set for every 50cum or part/ As decided by Engineer Incharge	IS 383-2016, IS2386(part1)-1963 & sampling 2430-1969 ,4926-2003
6	Cement Concrete (M30)	Cum	17.48	28 days Compressive Strength	4	4			4		1-5cum - 1 set, 5-15 cum- 2 set, 15-30cum- 3 set, 30-50cum - 4 set , aabove 50 cum- additio 1 set and above 100 cum - 1 set for every 100 cum . For RMC concrete 1 set for every 50cum or part/ As decided by Engineer Incharge	IS 383-2016, IS2386(part1)-1963 & sampling 2430-1969 ,4926-2003
7	Wet Mix Macadam	Cum	125.75	Aggregate Impact value	1	1			1		One test per 1000 m^3	IS:2720 (part 5) (Part-4)-1985 RA 2015, MORTH Table 400-13, IS 2386 (Part-4)
				Gradation	1	1			1		One test per 200 m^3	
				Shape test	1	1			1		One test per 350 m^3	
				Atterberg limits	1	1			1		One test per 200 m^3	

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						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn		
8	Dense Graded Bituminous Macadam	Cum	41.91	Quality of Binder	1	1			1		No. of samples per lot and tests as per IS:73	IS:2720 (part 5) (Part-4)-1985 RA 2015,AASTHO T 30 & MORTH Table 400-13, IS 2386 (Part-1)1963 RA 2016
				Aggregate Impact value	1	1			1		One test per 350m^3	
				Shape test	1	1			1		One test per 350m^3	
				Water Absorption of aggregates	1	1			1		One test of each source and whenever there is change in tha quality of aggregates	
				Gradation	1	1			1		One set for indivisual	
				Stability of mix	1	1			1		Two tests per day per plant	
				Binder content	1	1			1		tonnes of mix subject to	
9	Bituminous Concrete	Cum	139.74	Quality of Binder	1	1			1		No. of samples per lot and tests as per IS:73	IS:2720 (part 5) (Part-4)-1985 RA 2015,AASTHO T 30 & MORTH Table 500-17, IS 2386 (Part-1)1963 RA 2016
				Aggregate Impact value	1	1			1		One test per 350m^3	
				Shape test	1	1			1		One test per 350m^3	
				Water Absorption of aggregates	1	1			1		One test of each source and whenever there is change in tha quality of aggregates	
				Gradation	1	1			1		One set for indivisual constituent and mixed aggregates	
				Stability of mix	1	1			1		Two tests per day per plan	
				Binder content	1	1			1		One set for each 400 tonnes of mix subject to minimum of two tests per day per plant	

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